

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A process for labeling biomolecules bearing free reactive groups with a label compound which reacts to form a covalent bond, characterized in thatcomprising feeding solutions of both compounds ~~are fed~~ in defined quantitative flow rates to a micromixer, ~~preferably a static micromixer~~, and mixed~~mixing~~ intensively there, then optionally feeding the reaction mixture ~~is optionally fed~~ into a delay structure, and remains~~retaining~~ there for a time predetermined by the volume of the delay structure and the flow rate of the reaction mixture, and terminating the reaction ~~is terminated~~ after a time predefined by the reaction conditions.
2. (Currently Amended) The process as claimed in claim 1, characterized in thatwherein the free reactive groups are amino, thiol, alcohol, aldehyde/ketone and/or carboxylic acid groups.
3. (Currently Amended) The process according to claims 1-and/or 2, characterized in thatwherein the biomolecules are proteins, nucleic acids and/or saccharides.
4. (Currently Amended) The process ~~as claimed in one or more of~~ according to claims 1 to 3, characterized in thatwherein the micromixer is a micromixer with channel widths of less than 100 μm ~~is used~~.
5. (Currently Amended) The process ~~as claimed in one or more of~~ according to claims 1 to 4, characterized in thatwherein the micromixer ~~used~~ is a multilamination mixer or a split and recombine mixer.
6. (Currently Amended) The process ~~as claimed in one or more of~~ according to claims 1 to 5, characterized in thatwherein the delay structure ~~used~~ is a capillary of predefined volume or another volume with uniform flow or an arrangement with uniform flow.

7. (Currently Amended) The process ~~as claimed in one or more of~~ according to claims 1 to 6, ~~characterized in that~~ wherein the reaction mixture is pumped in circulation in the delay structure used, a micromixer optionally being inserted into the circuit.

8. (Currently Amended) An apparatus for performing the process ~~as claimed in one or more of~~ according to claims 1 to 7.